

SEQUENCE LISTING

<110> Schewe et al

<120> Monocotyledon plant cells and plants which synthesise modified starch

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<151> 2000-10-23

<150> DE 10064805.3

<151> 2000-12-22

<160> 16

<170> PatentIn Ver. 2.1

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<212> DNA

<213> Solanum tuberosum

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<221> CDS

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 Ile Glu Leu Gln Val Asp Val Arg Pro Pro Thr Ser Gly Asp Val Ser
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CCDS: Solanum tuberosum

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Asp	Asp	Pro	Ile	Leu	Asn	Lys	Lys	Ile	Phe	Lys	Val	Asp	Asp	Gly	Glu
			420					425					430		
Leu	Leu	Val	Leu	Val	Ala	Lys	Ser	Ser	Gly	Lys	Thr	Lys	Val	His	Ile
			435					440					445		
Ala	Thr	Asp	Leu	Asn	Gln	Pro	Ile	Thr	Leu	His	Trp	Ala	Leu	Ser	Lys
Ser	Arg	Gly	Glu	Trp	Met	Val	Pro	Pro	Ser	Ser	Ile	Leu	Pro	Pro	Gly
Ser	Ile	Ile	Leu	Asp	Lys	Ala	Ala	Glu	Thr	Pro	Phe	Ser	Ala	Ser	Ser
Ser	Asp	Gly	Leu	Thr	Ser	Lys	Val	Gln	Ser	Leu	Asp	Ile	Val	Ile	Glu
Asp	Gly	Asn	Phe	Val	Gly	Met	Pro	Phe	Val	Leu	Leu	Ser	Gly	Glu	Lys
Trp	Ile	Lys	Asn	Gln	Gly	Ser	Asp	Phe	Tyr	Val	Asp	Phe	Ser	Ala	Ala
Ser	Lys	Leu	Ala	Leu	Lys	Ala	Ala	Gly	Asp	Gly	Ser	Gly	Thr	Ala	Lys
Ser	Leu	Leu	Asp	Lys	Ile	Ala	Asp	Met	Glu	Ser	Glu	Ala	Gln	Lys	Ser
Phe	Met	His	Arg	Phe	Asn	Ile	Ala	Ala	Asp	Leu	Ile	Glu	Asp	Ala	Thr
Ser	Ala	Gly	Glu	Leu	Gly	Phe	Thr	Gly	Ile	Leu	Val	Trp	Met	Arg	Phe
Met	Ala	Thr	Arg	Gln	Leu	Ile	Trp	Asn	Lys	Asn	Tyr	Asn	Val	Lys	Pro
Arg	Glu	Ile	Ser	Lys	Ala	Gln	Asp	Arg	Leu	Thr	Asp	Leu	Leu	Gln	Asn
Ala	Phe	Thr	Ser	His	Pro	Gln	Tyr	Arg	Glu	Ile	Leu	Arg	Met	Ile	Met
Ser	Thr	Val	Gly	Arg	Gly	Gly	Glu	Gly	Asp	Val	Gly	Gln	Arg	Ile	Arg
Asp	Glu	Ile	Leu	Val	Ile	Gln	Arg	Lys	Asn	Asp	Cys	Lys	Gly	Gly	Met
Met	Glu	Glu	Trp	His	Gln	Lys	Leu	His	Asn	Asn	Thr	Ser	Pro	Asp	Asp

Val 705	Val	Ile	Cys	Gln	Ala	Leu	Ile	Asp	Tyr	Ile	Lys	Ser	Asp	Phe	Asp 720	
				710							715					
Leu	Gly	Val	Tyr	Trp	Lys	Thr	Leu	Asn	Glu	Asn	Gly	Ile	Thr	Lys	Glu 735	
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Arg	Leu	Leu	Ser	Tyr	Asp	Arg	Ala	Ile	His	Ser	Glu	Pro	Asn	Phe	Arg	
				740							745			750		
Gly	Asp	Gln	Lys	Asn	Gly	Leu	Leu	Arg	Asp	Leu	Gly	His	Tyr	Met	Arg	
				755							760			765		
Thr	Leu	Lys	Ala	Val	His	Ser	Gly	Ala	Asp	Leu	Glu	Ser	Ala	Ile	Ala	
				770							775			780		
Asn	Cys	Met	Gly	Tyr	Lys	Thr	Glu	Gly	Glu	Gly	Phe	Met	Val	Gly	Val 800	
785				790							795					
Gln	Ile	Asn	Pro	Val	Ser	Gly	Leu	Pro	Ser	Gly	Phe	Gln	Gly	Leu	Leu	
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His	Phe	Val	Leu	Asp	His	Val	Glu	Asp	Lys	Asn	Val	Glu	Thr	Leu	Leu	
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Glu	Gly	Leu	Leu	Glu	Ala	Arg	Glu	Glu	Leu	Arg	Pro	Leu	Leu	Leu	Lys	
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Pro	Asn	Asn	Arg	Leu	Lys	Asp	Leu	Leu	Phe	Leu	Asp	Ile	Ala	Leu	Asp	
850							855						860			
Ser	Thr	Val	Arg	Thr	Ala	Val	Glu	Arg	Gly	Tyr	Glu	Glu	Leu	Asn	Asn	
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Gly	Trp	Asn	Gln	Ala	Leu	Ser	Met	Ser	Asn	Gly	Gly	Asp	Asn	His	Trp	
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Ala	Leu	Phe	Ala	Lys	Ala	Val	Leu	Asp	Arg	Ile	Arg	Leu	Ala	Leu	Ala	
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945				950							955			960		
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Glu	Glu	Ile	Ile	Arg	Ala	Gly	Ser	Ala	Ala	Ser	Leu	Ser	Ser	Leu	Leu	
				980							985			990		
Asn	Arg	Leu	Asp	Pro	Val	Leu	Arg	Lys	Thr	Ala	Asn	Leu	Gly	Ser	Trp	
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Val Leu Val Gln Glu Ile Ile Asn Ala Asp Tyr Ala Phe Val Ile His
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Thr Thr Asn Pro Ser Ser Gly Asp Asp Ser Glu Ile Tyr Ala Glu Val
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Val Arg Gly Leu Gly Glu Thr Leu Val Gly Ala Tyr Pro Gly Arg Ala
1330 1335 1340

Leu Ser Phe Ile Cys Lys Lys Lys Asp Leu Asn Ser Pro Gln Val Leu
1345 1350 1355 1360

Gly Tyr Pro Ser Lys Pro Ile Gly Leu Phe Ile Lys Arg Ser Ile Ile
1365 1370 1375

Phe Arg Ser Asp Ser Asn Gly Glu Asp Leu Glu Gly Tyr Ala Gly Ala
1380 1385 1390

Gly Leu Tyr Asp Ser Val Pro Met Asp Glu Glu Glu Lys Val Val Ile
1395 1400 1405

Asp Tyr Ser Ser Asp Pro Leu Ile Thr Asp Gly Asn Phe Arg Gln Thr
1410 1415 1420

Ile Leu Ser Asn Ile Ala Arg Ala Gly His Ala Ile Glu Glu Leu Tyr
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